

Summary of Groundwater Sampling Procedures Pristine, Inc. Site

The Round 53 groundwater sampling event is scheduled to be conducted in January 2020. The sampling event will consist of collecting groundwater samples from a select group of monitoring wells and piezometers that will be analyzed for Volatile Organic Compounds (VOCs). Round 53 will be the third sampling event since the re-initiation of pumping at off-Site extraction well EW4 in October 2018.

Round 53 will include the sampling and analysis of groundwater from lower aquifer monitoring wells MW87, MW91, MW92, MW94, MW95, MW100 and MW101. Round 53 will also include the sampling and analysis of groundwater from lower aquifer piezometers PZ-3, PZ-4, PZ-5, PZ-6, PZ-7D and PZ-7S. In accordance with the approved procedures¹, all groundwater sampling during Round 53 will be conducted using bladder pumps and low flow sampling protocols.

Prior to the start of the Round 53 groundwater sampling event, the dedicated sample tubing in the monitoring wells and piezometers to be sampled will be inspected. If discoloring or staining is observed on the sample tubing, the tubing will be replaced with new Teflon-lined tubing. The tubing will also be replaced if there is evidence of cracking or if the tubing is brittle.

Following the completion of the Round 53 groundwater sampling event, all tubing in the monitoring wells and piezometers that were sampled will be removed and discarded.

New HDPE tubing will be installed in all monitoring wells and piezometers scheduled to be sampled during Round 54 (annual groundwater sampling event scheduled for July 2020) a minimum of one week prior to start of the Round 54 sampling event. Lower aquifer groundwater samples will be collected using bladder pumps and low flow purging methods. For upper aquifer wells being sampled, a bladder pump or, at select wells, a peristaltic pump will be used to collect groundwater samples. Although HDPE tubing will be placed in the upper aquifer wells, the HDPE tubing will need to be connected to flexible tubing, e.g., silicone, to operate the peristaltic pump when used.

Following the collection of groundwater samples at the monitoring wells and/or piezometers, the HDPE tubing will be removed and transferred to the Pristine treatment building for decontamination of both the inside and outside of the tubing, using distilled water. The inside of the tubing will be decontaminated by running distilled water through the tubing. The outside of the tubing will be decontaminated by wiping the outside surface with paper towels, moistened with distilled water. Following decontamination, the tubing will be placed in plastic bags labeled with the well or piezometer ID and stored in a sample shed in the treatment building until the next sampling event.

The management of the HDPE tubing will be documented and the proposed procedures will be submitted in draft format to the Agency for review and approval in early 2020.

¹ EPA-approved procedures for groundwater sampling are included in QAPP revision 1 dated March 14, 2014